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Ear Acupuncture for Post-operative Pain Associated With Ambulatory Arthroscopic Knee Surgery: A Randomized Controlled Trial



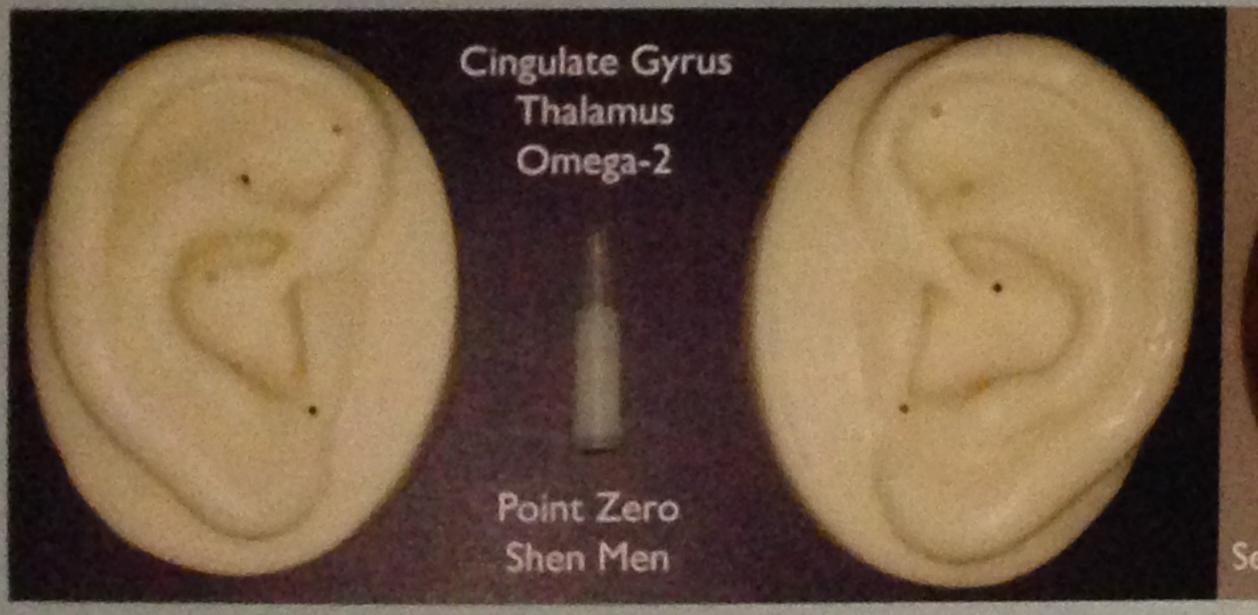
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INTRODUCTION

- Post-op pain impacts recovery
- *Auricular Acupuncture is a low risk option for acute pain control
- ·Battlefield acupuncture (BFA) is a specific auricular acupuncture technique
- *BFA is easily learned by non-acupuncturists
- Does adding BFA to standard treatment improve post operative outcomes in patients undergoing knee arthroscopy?

METHODS

- Single Blind randomized controlled trial
- Men and women >18yrs old undergoing unilateral knee arthroscopy without ligamentous repair
- •Group 1: Standard Treatment
- •Group 2: Standard Treatment + BFA (needles placed under anesthesia)
- •Outcome measures: Post-op pain scores, inpatient/outpatient medication usage, time to ambulation without assistance, post anesthesia care unit (PACU) discharge time, Pain Impact Questionnaire (PIQ6) scores
- Statistical analysis: Independent t-test





RESULTS					
Pain Scores	Standard	Standard +BFA	p-value		
5min	1.87	2.18	0.78		
30 min	1.80	1.88	0.92		
24hrs	3.40	4.35	0.27		
1 month	1.33	2.13	0.21		
Fentanyl (µg)	10.00	6.25	0.64		
Time to PACU					
Discharge (min)	58.80	72.71	0.08		
Narcotic Doses	23.40	15.75	0.45		
Non-narcotic Doses	10.47	12.13	0.82		
Days to Ambulation without Assistance	13.80	14.53	0.40		
Return to Work (days)			0.70		
	20.64	14.53	0.07		

- ■N=32
- No demonstrated difference in pain scores, pain medication usage, time to ambulation without assistance or PACU discharge time
- •PIQ6 scores will be calculated when all data is collected

DISCUSSION

- •Strengths: RCT, patient blind to treatment group, bandages covered all points in all patients, staff involved in pain scores and medication administration were blinded to treatment
- •Weaknesses: Small sample size, no sham acupuncture performed, standard post-op pain medication orders frequently not followed, needles placed before onset of pain.
- Potential reasons for non-significance:
 - 1. Auricular Acupuncture not effective
 - 2. Adjunctive pain treatment not needed due to efficacy of standard pain meds

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